

Janet Li

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Bioinformatics Masters student and software developer experienced in full stack web development and computational genomics.

SKILLS

Languages

- Python
- Javascript
- R
- Bash
- SQL

Technologies

- React/Next.js
- Express.js
- PostgreSQL
- HTML5
- CSS/SCSS

EXPERIENCE

Bioinformatics Research Network

Volunteer Web Developer

Jul. 2021 - Dec. 2021

- Implemented responsive user interfaces for a bioinformatics web application in React and Typescript, communicating with a Flask API
- Developed a user authentication system with Firebase, managing global user state with React Context

Canada's Michael Smith Genome Sciences Centre

Bioinformatics Research Assistant

Sept. 2019 - Apr. 2020

- Extended the Tigmint software (Python, GNU Make) to use long sequencing reads to identify and correct misassembled contigs in genome assemblies
- Implemented a continuous integration pipeline with Azure Pipelines and Github Actions to run integration tests and enforce code styling

PERSONAL PROJECTS

[Biru](#) ([source code](#))

Sept. 2021 - Dec. 2021

- Designed and implemented a responsive beer journal web application using Next.js, using React Context for global state management
- Developed a RESTful Express.js server for persistent data storage in a PostgreSQL database with the Sequelize ORM, including a session-based authentication system with express-session and Passport.js
- Integrated Cloudinary for managing image uploads and storage

[Vibe Check](#) ([source code](#))

May 2021 - June 2021

- Designed and developed a responsive user interface in Next.js that allows users to determine their mood from their Spotify listening history at different time scales
- Implemented an Express.js server to analyze data, authorize users and fetch their listening data using Spotify's OAuth2.0 framework and Web API

EDUCATION

University of British Columbia

MSc. Bioinformatics

Sept. 2020 - Present

- Awarded the British Columbia Graduate Scholarship consecutively for the Sept. 2020 - Aug. 2021 and Sept. 2021 - Aug. 2022 academic years

BSc. Applied Biology

Sept. 2015 - Apr. 2020

- Awarded the F. E. Buck Prize for the Sept. 2019 - Apr. 2020 academic year
- Awarded the Gordon Robert Smith Scholarship for the Sept. 2018 - Apr. 2019 academic year